



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO038050	ACI001-VC	1	1	Net 30	M4140NB0.500x0.500	4140 Steel Bar 0.500 X 0.500 : AISI 4140N STEEL BAR PER MIL-S-5626, AMS 6382, AMS 6349, AMS 6529				6	10/20/2017	12		S007089	Stock	11/6/2017	\$ 39.17 / ft	0		\$470.00	Acier Ouellet Inc.
		2			MT-41L40-R1.500	AISI 41L40 Leaded Steel Round Bar 1.500" Dia.				12		12		S007114	Stock	11/6/2017	\$ 34.00 / ft	0		\$408.00	Acier Ouellet Inc.
		3			M7075T6R1.750	M7075T6R1.750 : MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ROUND BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4124/4186/4187 OR PER AMS-QQ-A-200/11					10/26/2017	12		S007090	Stock	11/6/2017	\$ 47.92 / ft	0		\$575.00	Acier Ouellet Inc.
		4			MT-4140QT-R0.625	AISI 4140 Quenched & Tempered Steel Round Bar 0.625" Dia.				3	10/20/2017	3		S007115	Stock	11/6/2017	\$ 14.00 / ft	0		\$42.00	Acier Ouellet Inc.
		5			MT-4140QT-R1.000	AISI 4140 Quenched & Tempered Steel Round Bar 1.000" Dia.						3		S007126	Stock	11/6/2017	\$ 18.33 / ft	0		\$55.00	Acier Ouellet Inc.
		6			M6061T6B0.500X7.000	6061T6 Bar 0.500 X 7.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221				7		6		S007092	Stock	11/6/2017	\$ 17.14 / ft	0		\$102.86	Acier Ouellet Inc.
		7			M6061T6TR4.0X2.0W125	6061-T6 Rect Tube 4.0 X 2.0 X .125W : MATERIAL: 6061-T6 OR 6061-T651/T6510/T6511/T62 RECTANGULAR TUBING PER AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR PER AMS-QQ-A-200/8 OR AMS 4160				20		20		S007093	Stock	11/6/2017	\$ 4.98 / ft	0		\$99.50	Acier Ouellet Inc.
		8			MT-A513-T-0.500W0.0625	A513 Seamless Alloy Steel Round Tubing 0.500" dia. x 0.065" Wall						19		S007127	Stock	11/6/2017	\$ 2.03 / ft	0		\$38.36	Acier Ouellet Inc.
Total:										83		87								\$1,404.76	

Plex 11/6/2017 2:17 PM Dart Plouffe Sonia

MT 1144 2100
5007116



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038050

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO038050
PO Date: 10/16/17
Due Date: 10/20/17
**Purchase Order
Revision:**
Revision Date:
Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments:

Items													
Line Item	Part	Rev	Supplier Part No	Item No	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M4140NB0.500x0.500	-			4140 Steel Bar 0.500 X 0.500 : AISI 4140N STEEL BAR PER MIL-S-5626, AMS 6382, AMS 6349, AMS 6529		Firmed	10/20/17	6 ft	0 ft 12 ft	6 ft	\$39.1666/ft	\$235.00
2	MT-41L40-R1.500	✓	DAS 9		AISI 41L40 Leaded Steel Round Bar 1.500" Dia.		Firmed	10/20/17	12 ft	0 ft 12 ft	12 ft	\$34.00/ft	\$408.00
3	M7075T6R1.750	✓	9-89		M7075T6R1.750 : MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ROUND BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4124/4186/4187 OR PER AMS QQ-A-200/11		Firmed	10/26/17	12 ft	0 ft 12 ft	12 ft	\$47.9166/ft	\$575.00
4	MT-4140QT-R0.625	✓	DAS 9		AISI 4140 Quenched & Tempered Steel Round Bar 0.625" Dia.		Firmed	10/20/17	3 ft	0 ft 3 ft	3 ft	\$14.00/ft	\$42.00
5	MT-4140QT-R1.000	✓	9-89		AISI 4140 Quenched & Tempered Steel Round Bar 1.000" Dia.		Firmed	10/20/17	3 ft	0 ft 3 ft	3 ft	\$18.333/ft	\$55.00
6	M6061T6B0.500X7.000	-			6061T6 Bar 0.500 X 7.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221		Firmed	10/20/17	7 ft	0 ft 6 ft	7 ft	\$17.142857/ft	\$120.00
7	M6061T6TR4.0X2.0W125	-			6061-T6 Rect Tube 4.0 X 2.0 X .125W : MATERIAL: 6061-T6 OR 6061-T651/T6510/T6511/T62 RECTANGULAR TUBING PER AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116		Firmed	10/20/17	20 ft	0 ft 20 ft	20 ft	\$4.975/ft	\$99.50



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038050

Items													
Line Item	Part	Rev	Supplier Part No	Item No	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
8	MT-A513-T-0.500W0.0625				OR PER AMS-QQ-A-200/8 OR AMS 4160 A513 Seamless Alloy Steel Round Tubing 0.500"dia. x 0.065" Wall		Firmed	10/20/17	20 ft	0 ft	20 ft	\$2.0295/ft	\$40.59
Grand Total:												\$1,575.09	

Order Notes
<p>Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality documents</p> <p>Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.</p>

Plex 10/16/17 3:11 PM dart.lavoie.chantal

88 17-11-16



ACIER OUELLETTE INC.

DELIVERY - CLIENT

Copy CO00056725

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056

Date 2017/10/16

Delivery date 2017/10/26

Your order N° 038050

Processed by Josianne Bourdon

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 1

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Billed to

DART AEROSPACE LTD

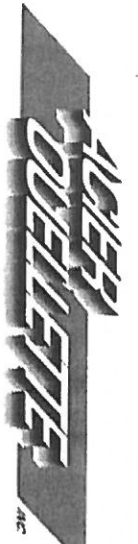
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 SQUARE 4140 1/2 SPH ANN NS C4140-12A 9235 1 X 12' ACT10294-JG-25/10 HEAT: 10466150	10.00	12.00	PI		12'						
2 ROUND 4140 ANNEALED 1 1/2 RANDOM R4140-112A-V 4891 1 X 15' HEAT-014580 COUPE A LA SCIE 1 SCIE 9-89 DAS 9 TRANSFERT ST-JEROME LE 26/10	90.12	15.00	PI_SCLB								

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

Copy CO00056725

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CL10001056

Date

2017/10/16

Delivery date

2017/10/26

Your order N°

038050

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

2

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Instruction F-M

Att: CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
4 ROUND ALU 1 3/4 7075-T6 NS . RAL7075T6-134 9245 1 X 12' AC10312-JG-25/10 HEAT: 10059056 ✓	33.90	12.00	PI							
5 7075 T6 1 3/4" DIA N		1.00	UN							
6 TUBE MEC 0.500 OD X .065 RANDOM TME-0500065-V 6745 1 X 20' R/L HEAT: F686891 TRANSFERT ST-JEROME LE 18/10 DAS 9-86	6.04	20.00	PI_\$CPI							

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.
935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

Copy CO00056725

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

3

Customer N°

CLI0001056

Date

2017/10/16

Delivery date

2017/10/26

Your order N°

038050

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

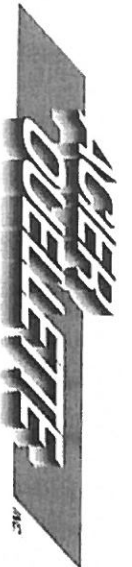
Credit Terme

Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
8 ROUND 4140 5/8 QT NS R4140-58QT 9236 1 X 3' AC10291-FU-19/10 HEAT: LETTRE CONF. R4140-1QT 9237	3.12	3.00	PI								
9 ROUND 4140 1 QT NS R4140-1QT 9237 1 X 3' AC10291-FU-19/10 HEAT: <u>NF14203087</u> 9.86	8.01	3.00	PI_SCLB								
10 FLAT ALU 1/2 X 7 6061-T651 NS FAL-127 9238 1 X 6' AC10292-TH-23/10 HEAT: 13-2217	26.00	6.00	PI_SCLB								

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

Copy CO00056725

Customer N° CL10001056

Date 2017/10/16

Delivery date **2017/10/26**

Your order N° 038050

Processed by Josianne Bourdon

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 4

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

Att: CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
11 TUBE ALU 4 X 2 X .125 6061-T6 R RANDOM TAL-4212SR-V 6386 1 X 20' HEAT: 69967 ~	33.62	20.00	PL_\$CLB							

Total Weight (lbs) : 210.81

NIR : R-109516-6

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All test materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :

Verified By :

Delivered By : Time

Customer's Signature

Y M D

Total (\$CAD)

Date



ACIER OUELLETTE INC.

DELIVERY - SCIE (4)

Copy

CO00056725

935, Boul. du Hève
Salaberry de Valleyfield (Québec) J65 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CL10001056

Date

2017/10/16

Delivery date

2017/10/26

Your order N°

038050

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Shipped to

, Ontario,

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Alt : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

1

Product Description	Weight	Qty	U/M	PCS/NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 ROUND 4140 ANNEALED 1 1/2 RANDOM R4140-112A-V 4891 1 X 15' HEAT: 014580 COUPE A LA SCIE SCIE 1	90.12	15.00	PL_\$CLB							

Total Weight (Lbs) : 90.12

NIR : R-109516-6

Conditions :
All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By : Verified By :

Delivered By : Time

Y M D

Total (\$CAD)

Customer's Signature

Date

CO. 36725
CERTIFICATE OF TEST
CERTIFICAT D'ESSAIS

Page 01 of 01

Certification Date
25-OCT-2017

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T371712

AC00010294
PART NUMBER/NUMÉRO DE PIÈCE
562565

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.
VENDU À: DIVISION SALABERRY DE VALLEYFIELD DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIE QC J6S

Description: 4140/42 CR SPH ANN BARS ASTM A108
1/2 SQ X 12' R/L Line Total: 10.212 LB
HEAT: 10466150 ITEM: 562565

Specifications:
ASTM A331 ASTM A108 13 ASTM A322 07

RCPT: R122254

COUNTRY OF ORIGIN : USA

END-QUENCH HARDENABILITY (JOMINY - RC)

1	2	3	4	5	6	7	8	9	10	12	14	16	32
57	57	57	57	57	57	57	55	54	53	50	48	46	38

GRAIN SIZE : 5 -

17/11/02

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport n'a pas été en contact avec le mercure pendant sa possession. JOANNE DESPRÉS

Joanne Després

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

644-112

Eaton Steel Bar Company Inspection Certificate 1583374

EN 10204:2004-3.1

Customer	BOL	Ship Date	Customer PO	Item	Customer Item	Item Description
	15579	22-Jul-2016	B33985	9251 rev 002	V014132	1-1/2 HR RD 4140ME 18/20H SBO LPA FG MIST

All bundles listed below were produced using steel from Heat 014580 issued by HAMILTON SPECIALTY BAR and were completed from Eaton Steel Job 795554.

Chemistry	Description	Value	Units	Heat Treating	Description	Value	Units
C	Carbon	0.40000	PWCT	TIME AT TEMP	Time at Temperature	Report	Units
Mn	Manganese	0.82000	PWCT	Mill Processing	Welded in Country	Value	Units
P	Phosphorus	0.02200	PWCT	WELT. CONTROL	Welded in Country	CAN	-
S	Sulfur	0.02300	PWCT	ROLLED COUNTRY	Welded in Country	22.00	RED
Si	Silicon	0.23000	PWCT	RED RATIO	Reduction Ratio	Value	Units
Ni	Nickel	0.13000	PWCT	ASTM Standard	Description	CONFORMS	Units
Cr	Chromium	0.85000	PWCT	A332-91	Steel Bars, Alloy, Standard Grades	Value	Units
Mo	Molybdenum	0.17400	PWCT	Structure	Description	70 - 100	PCT
Al	Aluminum	0.02400	PWCT	PERCENT LP	Percent Lamellar Pearlite	LP	-
Cu	Copper	0.00800	PWCT	MICROSTRUCTURE	Reported Microstructure		
V	Vanadium	0.00100	PWCT	Tag Number	Qty Units	Length	
Ca	Calcium	0.00170	PWCT	022-1022033	4675 LBS	18ft	
N	Nitrogen	0.00500	PWCT				
DT	Ideal Diameter	4.53000	IN				
Cleanliness	Description	Value	Units				
SAS 3422 OX	SAS 3422 oxide Rating	0.0 - 5.0	NOM				
SAS 3422 SI	SAS 3422 silicate Rating	0.0 - 5.0	NOM				
MACRO ETCH	Report macro etch results.	Value	Units				
Geometry	Description	Value	Units				
Diameter	Diameter	1.4860 - 1.5140	IN				
Geometry	Description	Value	Units				
J1	1/16 inch from Quenched End	56	HRC				
J2	2/16 inch from Quenched End	56	HRC				
J3	3/16 inch from Quenched End	56	HRC				
J4	4/16 inch from Quenched End	56	HRC				
J5	5/16 inch from Quenched End	56	HRC				
J6	6/16 inch from Quenched End	51	HRC				
J7	7/16 inch from Quenched End	51	HRC				
J8	8/16 inch from Quenched End	50	HRC				
J9	9/16 inch from Quenched End	49	HRC				
J10	10/16 inch from Quenched End	47	HRC				
J11	11/16 inch from Quenched End	45	HRC				
J12	12/16 inch from Quenched End	42	HRC				
J13	13/16 inch from Quenched End	40	HRC				
J14	14/16 inch from Quenched End	39	HRC				
J15	15/16 inch from Quenched End	38	HRC				
J16	16/16 inch from Quenched End	37	HRC				
J17	17/16 inch from Quenched End	36	HRC				
J18	18/16 inch from Quenched End	34	HRC				
J19	19/16 inch from Quenched End	32	HRC				
J20	20/16 inch from Quenched End	32	HRC				
J21	21/16 inch from Quenched End	32	HRC				
J22	22/16 inch from Quenched End	32	HRC				
J23	23/16 inch from Quenched End	32	HRC				
J24	24/16 inch from Quenched End	32	HRC				
J25	25/16 inch from Quenched End	32	HRC				
J26	26/16 inch from Quenched End	32	HRC				
J27	27/16 inch from Quenched End	32	HRC				
J28	28/16 inch from Quenched End	32	HRC				
J29	29/16 inch from Quenched End	32	HRC				
J30	30/16 inch from Quenched End	32	HRC				
J31	31/16 inch from Quenched End	32	HRC				
J32	32/16 inch from Quenched End	32	HRC				
J33	33/16 inch from Quenched End	32	HRC				
J34	34/16 inch from Quenched End	32	HRC				
J35	35/16 inch from Quenched End	32	HRC				
J36	36/16 inch from Quenched End	32	HRC				
J37	37/16 inch from Quenched End	32	HRC				
J38	38/16 inch from Quenched End	32	HRC				
J39	39/16 inch from Quenched End	32	HRC				
J40	40/16 inch from Quenched End	32	HRC				
J41	41/16 inch from Quenched End	32	HRC				
J42	42/16 inch from Quenched End	32	HRC				
J43	43/16 inch from Quenched End	32	HRC				
J44	44/16 inch from Quenched End	32	HRC				
J45	45/16 inch from Quenched End	32	HRC				
J46	46/16 inch from Quenched End	32	HRC				
J47	47/16 inch from Quenched End	32	HRC				
J48	48/16 inch from Quenched End	32	HRC				
J49	49/16 inch from Quenched End	32	HRC				
J50	50/16 inch from Quenched End	32	HRC				
J51	51/16 inch from Quenched End	32	HRC				
J52	52/16 inch from Quenched End	32	HRC				
J53	53/16 inch from Quenched End	32	HRC				
J54	54/16 inch from Quenched End	32	HRC				
J55	55/16 inch from Quenched End	32	HRC				
J56	56/16 inch from Quenched End	32	HRC				
J57	57/16 inch from Quenched End	32	HRC				
J58	58/16 inch from Quenched End	32	HRC				
J59	59/16 inch from Quenched End	32	HRC				
J60	60/16 inch from Quenched End	32	HRC				
J61	61/16 inch from Quenched End	32	HRC				
J62	62/16 inch from Quenched End	32	HRC				
J63	63/16 inch from Quenched End	32	HRC				
J64	64/16 inch from Quenched End	32	HRC				
J65	65/16 inch from Quenched End	32	HRC				
J66	66/16 inch from Quenched End	32	HRC				
J67	67/16 inch from Quenched End	32	HRC				
J68	68/16 inch from Quenched End	32	HRC				
J69	69/16 inch from Quenched End	32	HRC				
J70	70/16 inch from Quenched End	32	HRC				
J71	71/16 inch from Quenched End	32	HRC				
J72	72/16 inch from Quenched End	32	HRC				
J73	73/16 inch from Quenched End	32	HRC				
J74	74/16 inch from Quenched End	32	HRC				
J75	75/16 inch from Quenched End	32	HRC				
J76	76/16 inch from Quenched End	32	HRC				
J77	77/16 inch from Quenched End	32	HRC				
J78	78/16 inch from Quenched End	32	HRC				
J79	79/16 inch from Quenched End	32	HRC				
J80	80/16 inch from Quenched End	32	HRC				
J81	81/16 inch from Quenched End	32	HRC				
J82	82/16 inch from Quenched End	32	HRC				
J83	83/16 inch from Quenched End	32	HRC				
J84	84/16 inch from Quenched End	32	HRC				
J85	85/16 inch from Quenched End	32	HRC				
J86	86/16 inch from Quenched End	32	HRC				
J87	87/16 inch from Quenched End	32	HRC				
J88	88/16 inch from Quenched End	32	HRC				
J89	89/16 inch from Quenched End	32	HRC				
J90	90/16 inch from Quenched End	32	HRC				
J91	91/16 inch from Quenched End	32	HRC				
J92	92/16 inch from Quenched End	32	HRC				
J93	93/16 inch from Quenched End	32	HRC				
J94	94/16 inch from Quenched End	32	HRC				
J95	95/16 inch from Quenched End	32	HRC				
J96	96/16 inch from Quenched End	32	HRC				
J97	97/16 inch from Quenched End	32	HRC				
J98	98/16 inch from Quenched End	32	HRC				
J99	99/16 inch from Quenched End	32	HRC				
J100	100/16 inch from Quenched End	32	HRC				
J101	101/16 inch from Quenched End	32	HRC				
J102	102/16 inch from Quenched End	32	HRC				
J103	103/16 inch from Quenched End	32	HRC				
J104	104/16 inch from Quenched End	32	HRC				
J105	105/16 inch from Quenched End	32	HRC				
J106	106/16 inch from Quenched End	32	HRC				
J107	107/16 inch from Quenched End	32	HRC				
J108	108/16 inch from Quenched End	32	HRC				
J109	109/16 inch from Quenched End	32	HRC				
J110	110/16 inch from Quenched End	32	HRC				
J111	111/16 inch from Quenched End	32	HRC				
J112	112/16 inch from Quenched End	32	HRC				
J113	113/16 inch from Quenched End	32	HRC				
J114	114/16 inch from Quenched End	32	HRC				
J115	115/16 inch from Quenched End	32	HRC				
J116	116/16 inch from Quenched End	32	HRC				
J117	117/16 inch from Quenched End	32	HRC				
J118	118/16 inch from Quenched End	32	HRC				
J119	119/16 inch from Quenched End	32	HRC				
J120	120/16 inch from Quenched End	32	HRC				
J121	121/16 inch from Quenched End	32	HRC				
J122	122/16 inch from Quenched End	32	HRC				
J123	123/16 inch from Quenched End	32	HRC				
J124	124/16 inch from Quenched End	32	HRC				
J125	125/16 inch from Quenched End	32	HRC				
J126	126/16 inch from Quenched End	32	HRC				
J127	127/16 inch from Quenched End	32	HRC				
J128	128/16 inch from Quenched End	32	HRC				
J129	129/16 inch from Quenched End	32	HRC				
J130	130/16 inch from Quenched End	32	HRC				
J131	131/16 inch from Quenched End	32	HRC				
J132	132/16 inch from Quenched End	32	HRC				
J133	133/16 inch from Quenched End	32	HRC				
J134	134/16 inch from Quenched End	32	HRC				
J135	135/16 inch from Quenched End	32	HRC				
J136	136/16 inch from Quenched End	32	HRC				
J137	137/16 inch from Quenched End	32	HRC				
J138	138/16 inch from Quenched End	32	HRC				
J139	139/16 inch from Quenched End	32	HRC				
J140	140/16 inch from Quenched End	32	HRC				
J141	141/16 inch from Quenched End	32	HRC				
J142	142/16 inch from Quenched End	32	HRC				
J143	143/16 inch from Quenched End	32	HRC				
J144	144/16 inch from Quenched End	32	HRC				
J145	145/16 inch from Quenched End	32	HRC				
J146	146/16 inch from Quenched End	32	HRC				
J147	147/16 inch from Quenched End	32	HRC				
J148	148/16 inch from Quenched End	32	HRC				
J149	149/16 inch from Quenched End	32	HRC				
J150	150/16 inch from Quenched End	32	HRC				
J151	151/16 inch from Quenched End	32	HRC				
J152	152/16 inch from Quenched End	32	HRC				
J153	153/16 inch from Quenched End	32	HRC				
J154	154/16 inch from Quenched End	32	HRC				
J155	155/16 inch from Quenched End	32	HRC				
J156	156/16 inch from Quenched End	32	HRC				
J157	157/16 inch from Quenched End	32	HRC				
J158	158/16 inch from Quenched End	32	HRC				
J159	159/16 inch from Quenched End	32	HRC				
J160	160/16 inch from Quenched End	32	HRC				
J161	161/16 inch from Quenched End	32	HRC				
J162	162/16 inch from Quenched End	32	HRC				
J163	163/16 inch from Quenched End	32	HRC				
J164	164/16 inch from Quenched End	32	HRC				
J165	165/16 inch from Quenched End	32	HRC				
J166	166/16 inch from Quenched End	32	HRC				
J167	167/16 inch from Quenched End	32	HRC				
J168	168/16 inch from Quenched End	32	HRC				
J169	169/16 inch from Quenched End	32	HRC				
J170	170/16 inch from Quenched End	32	HRC				
J171	171/16 inch from Qu						

Hamilton Specialty Bar (2007) Inc.

319 SHERMAN AVENUE NORTH
P.O. BOX 2943, HAMILTON, ONTARIO, L8N 3R5
Phone: (905)312-8550 Fax: (905)312-1819

TEST REPORT/RAPPORT D'EXAMEN

Customer code : 050415 Date : 2016-04-02
Cust. Order No.: 155757
Cust. Part No.: 1003613

Vendor/Vendeur:		Sold to/Vendu à:		Ship to/Livrer à:																																																	
HAMILTON SPECIALTY BAR (2007) INC. 319 SHERMAN AVENUE NORTH P.O. BOX 2943 HAMILTON ON L8N 3R5		EATON STEEL CORPORATION 10221 CAPITAL AVENUE OAK PARK MI 48237 USA		EATON STEEL CORPORATION C/O SUPER STEEL TREATING CO. 6227 RINKE WARREN MI 48091 USA																																																	
IPO: 18870 Heat: 014580		RD-Rounds		Dimensions: 1.5000 in																																																	
DAS				Cust Grade Length: 216.000 in 4140ME																																																	
<table border="1"> <thead> <tr> <th colspan="2">Chemical Analysis</th> <th>C</th> <th>Mn</th> <th>P</th> <th>S</th> <th>Si</th> <th>Cu</th> <th>Cr</th> <th>Mo</th> <th>Ni</th> <th>Nb</th> <th>V</th> <th>Al</th> <th>Di</th> <th>Ca</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>0.40</td> <td>0.82</td> <td>0.022</td> <td>0.023</td> <td>0.23</td> <td>0.20</td> <td>0.85</td> <td>0.174</td> <td>0.12</td> <td>0.003</td> <td>0.008</td> <td>0.024</td> <td>4.53</td> <td>0.0017</td> <td>0.009</td> <td></td> <td></td> </tr> </tbody> </table>						Chemical Analysis		C	Mn	P	S	Si	Cu	Cr	Mo	Ni	Nb	V	Al	Di	Ca	N	0.40	0.82	0.022	0.023	0.23	0.20	0.85	0.174	0.12	0.003	0.008	0.024	4.53	0.0017	0.009																
Chemical Analysis		C	Mn	P	S	Si	Cu	Cr	Mo	Ni	Nb	V	Al	Di	Ca	N																																					
0.40	0.82	0.022	0.023	0.23	0.20	0.85	0.174	0.12	0.003	0.008	0.024	4.53	0.0017	0.009																																							
<table border="1"> <thead> <tr> <th colspan="2">Joining end-quench</th> <th>J01</th> <th>J02</th> <th>J03</th> <th>J04</th> <th>J05</th> <th>J06</th> <th>J07</th> <th>J08</th> <th>J09</th> <th>J10</th> <th>J11</th> <th>J12</th> <th>J14</th> <th>J16</th> <th>J18</th> <th>J20</th> <th>J22</th> <th>J24</th> <th>J26</th> <th>J28</th> <th>J30</th> <th>J32</th> </tr> </thead> <tbody> <tr> <td>56</td> <td>56</td> <td>56</td> <td>56</td> <td>56</td> <td>56</td> <td>56</td> <td>56</td> <td>56</td> <td>56</td> <td>49</td> <td>47</td> <td>46</td> <td>45</td> <td>42</td> <td>40</td> <td>39</td> <td>38</td> <td>37</td> <td>36</td> <td>35</td> <td>34</td> <td>33</td> <td>32</td> </tr> </tbody> </table>						Joining end-quench		J01	J02	J03	J04	J05	J06	J07	J08	J09	J10	J11	J12	J14	J16	J18	J20	J22	J24	J26	J28	J30	J32	56	56	56	56	56	56	56	56	56	56	49	47	46	45	42	40	39	38	37	36	35	34	33	32
Joining end-quench		J01	J02	J03	J04	J05	J06	J07	J08	J09	J10	J11	J12	J14	J16	J18	J20	J22	J24	J26	J28	J30	J32																														
56	56	56	56	56	56	56	56	56	56	49	47	46	45	42	40	39	38	37	36	35	34	33	32																														
<p>Comments</p> <p>Reduction Ratio: 22</p> <p>THIS MATERIAL WAS MELTED AND ROLLED IN CANADA</p> <p>THIS MATERIAL MEETS OR EXCEEDS CLEANLINESS RATING OF .S-4 O-4 ACCORDING TO J422 LATEST REVISION.</p> <p>THIS MATERIAL MEETS OR EXCEEDS GRAIN SIZE 5 OR FINER AS PER ASTM E112 AND CONFORMS TO A322/A304/A29/A29M LATEST REVISION</p> <p>ASTM E381-01: S-1 R-1 C-1</p>																																																					

This material was not exposed to moisture or any other condition during processing or while in Hamilton Specialty Bar (2007) Inc. possession. This material was not subjected to any other condition or treatment. Hamilton Specialty Bar (2007) Inc. possession. This material was produced in an electric arc furnace. Conformance stated last. This was not tested in Canada. Certified chemical analysis is the company's records. For the information of the user, the steel is not tested in Canada.

Albert
Peter Kourakis, QA Technician



Quality Report

Date	Q.C. ID No.
04/21/16	W05R144392

Customer: **EATON STEEL CORP**

Metallurgist: AFR

Metallurgical Certification

Customer: EATON STEEL CORP PLT#2

Furnace Process : 2
Date Processed : 04/21/16

Grade: 4140

Date Processed: 04/21/16
Accepted Weight: 46590

Size: 1.5000

Accepted Weight: 46590
Accepted Qty: 5

Heal No : 014580
 Date of birth : 01/11/1997

Accepted Qty: 5
Mill: BSB

Cust PO : 155758

Release No:
 Brooks TV-T.P.A

Mill Notes :

Process TY: LPA

Our Part: EA705600
Cust Part: 9253

Representative Sampling

Sample	Coll ID#	Decarb	WT	-- Mid Radius --	--- Surface ---	Microstructure
1	1001	1001	1001	1001	1001	1001
2	1002	1002	1002	1002	1002	1002
3	1003	1003	1003	1003	1003	1003
4	1004	1004	1004	1004	1004	1004
5	1005	1005	1005	1005	1005	1005
6	1006	1006	1006	1006	1006	1006
7	1007	1007	1007	1007	1007	1007
8	1008	1008	1008	1008	1008	1008
9	1009	1009	1009	1009	1009	1009
10	1010	1010	1010	1010	1010	1010
11	1011	1011	1011	1011	1011	1011
12	1012	1012	1012	1012	1012	1012
13	1013	1013	1013	1013	1013	1013
14	1014	1014	1014	1014	1014	1014
15	1015	1015	1015	1015	1015	1015
16	1016	1016	1016	1016	1016	1016
17	1017	1017	1017	1017	1017	1017
18	1018	1018	1018	1018	1018	1018
19	1019	1019	1019	1019	1019	1019
20	1020	1020	1020	1020	1020	1020
21	1021	1021	1021	1021	1021	1021
22	1022	1022	1022	1022	1022	1022
23	1023	1023	1023	1023	1023	1023
24	1024	1024	1024	1024	1024	1024
25	1025	1025	1025	1025	1025	1025
26	1026	1026	1026	1026	1026	1026
27	1027	1027	1027	1027	1027	1027
28	1028	1028	1028	1028	1028	1028
29	1029	1029	1029	1029	1029	1029
30	1030	1030	1030	1030	1030	1030
31	1031	1031	1031	1031	1031	1031
32	1032	1032	1032	1032	1032	1032
33	1033	1033	1033	1033	1033	1033
34	1034	1034	1034	1034	1034	1034
35	1035	1035	1035	1035	1035	1035
36	1036	1036	1036	1036	1036	1036
37	1037	1037	1037	1037	1037	1037
38	1038	1038	1038	1038	1038	1038
39	1039	1039	1039	1039	1039	1039
40	1040	1040	1040	1040	1040	1040
41	1041	1041	1041	1041	1041	1041
42	1042	1042	1042	1042	1042	1042
43	1043	1043	1043	1043	1043	1043
44	1044	1044	1044	1044	1044	1044
45	1045	1045	1045	1045	1045	1045
46	1046	1046	1046	1046	1046	1046
47	1047	1047	1047	1047	1047	1047
48	1048	1048	1048	1048	1048	1048
49	1049	1049	1049	1049	1049	1049
50	1050	1050	1050	1050	1050	1050
51	1051	1051	1051	1051	1051	1051
52	1052	1052	1052	1052	1052	1052
53	1053	1053	1053	1053	1053	1053
54	1054	1054	1054	1054		

262052	0.002	193	100% PEARLITE
--------	-------	-----	---------------

Coil/Bundle ID:	014580027	014580028	014580029	014580030
014580031				

WAB-#795554

cert 403932

CU. 56 125
CERTIFICATE OF TEST
CERTIFICAT D'ESSAIS

DART

Page 01 of 02

Certification Date
 25-OCT-2017

CUSTOMER ORDER NUMBER
 NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
 T371737

AC00010312
 PART NUMBER/NUMÉRO DE PIÈCE
 513244

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.
 VENDU À: DIVISION SALABERRY DE VALLEYFIELD DIVISION SALABERRY DE VALLEYFIELD
 935, BOUL. DU HAVRE 935, BOUL. DU HAVRE
 SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIE QC J6S

Description: 7075-T651 CF BAR AMS QQ A 225/9, QQ A 225/9
 1-3/4 RD X 12" Line Total: 35 LB
 HEAT: 10059056 ITEM: 513244

Specifications:
 QQ A 225/9 E ASTM B211 12 AMS 4123 H
 AMS 4122 L AMS QQ A 225/9 A ISO 9001

ALUMINIUM CHEMICAL ANALYSIS

DESCRIPTION:

	SI	FE	CU	MN	MG	CR	ZN	TI
MIN			1.2		2.1	0.18	5.1	
MAX	0.4	0.5	2.0	0.3	2.9	0.28	6.1	0.2

OTHERS : EACH TOTAL
 0.05 0.15 AL REMAINDER

RCPT: R932320

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS
	74.2	81.2	16.0		
	75.5	82.4	16.0		

17/11/02

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

Joanne Despres

MANAGER QUALITY ASSURANCE
 GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
25-OCT-2017

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00010312

Invoice Number
T371737

PART NUMBER/NUMÉRO DE PIÈCE
513244

SOLD TO:	ACIER OUELLETTE INC.	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALLEYFIELD	EXPÉDIÉ À:	DIVISION SALABERRY DE VALLEYFIELD
	935, BOUL. DU HAVRE		935, BOUL. DU HAVRE
	SALABERRY-DE- VALLEYFIELD QC J6S 5L1		SALABERRY-DE- VALLEYFIE QC J6S

Description: 7075-T651 CF BAR AMS QQ A 225/9, QQ A 225/9
1-3/4 RD X 12' Line Total: 35 LB

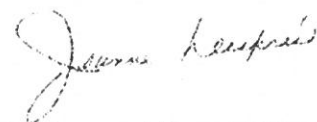
HEAT: 10059056 ITEM: 513244

MATERIAL IS FREE FROM MERCURY CONTAMINATION

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

Turn 12065

17101-2

GOOD LUCK INDUSTRIES

(A UNIT OF GOODLUCK INDIA LTD.)

4th, INDUSTRIAL INDUSTRIAL AREA,

SIRANDIBAD, DIST. - KANDAMBAKUR UPPIAN

TEL. NO. +91-120-41800, FAX. NO. +91-120-418010

An ISO 9001:2008-14001800000 18001 Certified Company

DEPARTMENT - QUALITY ASSURANCE

WORK TEST CERTIFICATE

Doc. No. 04-FT-QA-20

Rev. No. 4

Rev. Date 18-07-2016



SKIN-GUVTIC0773DATE22.02.2017

Customer: BALEH STEEL NORTH AMERICA, LLC

Size: D.500" OD X 0.370" ID X 177" L

Specification: ASTM A 512/512M-15 78 400-518

HEAT NO. COIL NO. 198889191-18L101

Item no. 1 2

DAS

9

9-00

Purchase Order No. 016271-P

Rev. Supplier: JSR

Invoice No. B. Date: 04/07/17 11:22:02.2017

Container No. 001U-7803148

Quantity: 972 PCS (274 X 3, 189 X 1)

FEET : 16884 LBS : 5778

Bundle No. 016271-P-2-1 TO 016271-P-2-4

CHEMICAL PROPERTIES

C%	Mo%	S% max.	P% max.	Al%	Si%	N%	Tensile Strength (psi) min.	Yield Strength (psi) min.	EL % min.	Hardness (HRC) min.
0.18	0.30	0.038	0.038	-	-	-	63000	63000	10%	78
0.23	0.60									
ACTUAL	0.217	0.080	0.008	0.018	0.048	0.084	87718	74881	22%	85

MECHANICAL PROPERTIES

Flatt Test	1	Min 1/3 % of OD passed.
Flatt Test	1	Min 15 % of ID passed
Straightness	1	0.02073, 0' Min. passed

Surface : 1 Satisfactory
Bddy Current Tests : 100% Tubes tested found satisfactory
Material Grade : Fully Killed
Final Condition : SRA as per P.O.

This is to certify that the material supplied conforms to all requirements as specified by the customer. This test certificate confirms to EN 10204-3.1
NOTA: Material conforms to European Environmental Legislation RoHS Directive 2002/95/EC.

COUNTRY OF ORIGIN: INDIA

PREPARED BY

FOR GOODLUCK INDUSTRIES

Good Luck Industries
4th, Industrial Area
Sirandibad, District -
Kandamбакур Uppian
Tamil Nadu - 605 001
India

FOR GOODLUCK INDUSTRIES

CERTIFICATION TYPIQUE D'ANALYSE

AISI TYPE
4140 RD - HT# DL13107201
. 625 DIA.

DAS
9.00

26 octobre 2017

ACIER OUELLETTE - VALLEYFIELD
935, boul. du Havre
Valleyfield, QC J6S 5L1

Attn. À Qui de Droit

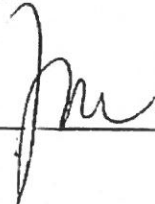
Ref. PO AC-10291 / Facture # 30870

Acier Fusion certifié par la présente, que le matériel décrit ci-haut rencontre les limites chimiques suivantes:

Typical Analysis

C	Mn	Si	Cr	Mo
0.370/0.440	0.650/1.100	0.150/0.350	0.750/1.200	0.150/0.250

BHN : 269 - 302



Chemical certification Certification chimique

Order Num / No. Commande AC-10291	Vendor / Fournisseur 29	Country of origin / Pay d'origine USA	Date 01/20/16	Heat / coulée ^{DAS} NF14203087	Material ID # / No. matériau
Grade / Nuance 4140 RD	Conditions ANNEALED				
Shape / Forme RD	Size / Dimension 1.000	Specifications ASTM A193-14 GR B7, A29-12, A322-12, A434-06			

Chemical composition / Analyse chimique				
Carbon (C)		Silicon (Si)		Manganese (Mn)
Mini / maxi	0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	Phosphorus (P)
Actuel %	0.430	0.310	0.920	0.0000 / 0.0000
Sulphur (S)		Chromium (Cr)		Nickel (Ni)
Mini / maxi	0.0000 / 0.0000	0.7500 / 1.2000	0.0000 / 0.0000	Molybdenum (Mo)
Actuel %	0.025	0.950	0.090	0.1500 / 0.2500
Copper (Cu)		Vanadium (V)		Aluminum (Al)
Mini / maxi	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	Tungsten (W)
Actuel %	0.160	0.004	0.027	0.0000 / 0.0000
Cobalt (Co)		Titanium (Ti)		Cb
Mini / maxi	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	Sn
Actuel %	0.000	0.001	0.002	0.0000 / 0.0000
				Ca
				0.0000 / 0.0000
				0.001
Mechanical properties / Propriétés Mécaniques				
Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC
149.239 PSI	125.527 PSI	19.70	56.00	
				BHN

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut on été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur

Prepared by: / Préparé par:

56725

DART

PO, 10242

ACIER OUELLETTE DIV. VALLEYFIELD

PLAQUE ALUMINIUM 6061-T651
50" THICK X 7.0000" X 72.0000"
PART NO.

PO/Rel AC00010292/00010299

Nous certifions que le document reproduit ici est
une copie conforme du rapport fourni par le
fournisseur du matériel ou les données résultant

Certificate of Mill Test Results

BL VIM-524921-001

24Oct17

Pg 1/4

de l'analyse faite par un laboratoire qualifié.
SIGNÉ PAR:

INSPECTION CERTIFICATE № 17.121473

EN 10204 - 3.1

Consigner: KAMENSK URALSKY METALLURGICAL WORKS 5, Zavodskaya Str., Kamensk Ural'sky, Sverdlovsk Region, 623406, Russia Tel: +7 (3438) 39 54 17 Fax: +7 (3438) 39 52 49				JOINT STOCK COMPANY							
P.O. No: VIM-641201				Quantity, pcs: 6							
Article No:				Net Weight, kg: 839							
Description of Goods: Plates				S.O. No: N17C83							
Grade of Product				Item No: 1.2							
Dimensions, inch (mm) 0.5"X48.5"X98.5" 12.700X1231.80X2451.1				Package No: 725303							
Requirements on the Products: Material conforms to quality of alloy: 6061 T651				Product conforms to all requirements of: ASTM B209-14; SAE AMS-OC-A-250/11A (2008); SAE AMS 4027 Rev. N (2014). This product conforms to European Union RoHS Directive 2011/65/EU							
Mechanical Properties											
The Condition of Tested Standards	Lot No.	Heat lot No.	HT Charge No.	Sampling direction	Tensile Strength, Rm / T _{0.2}		Yield Strength, Rp0.2% / R _{0.2}		Elongation, %		Hardness, HBW
					min	max	min	max	min	max	
Required	647106	13-2217		LT	42.0		35.0		8		
				LT	48.5	47.3	42.7	43.8	15.1	16.1	
Chemical Composition, %											
Element	Silicon Si	Iron Fe	Copper Cu	Manganese Mn	Magnesium Mg	Chromium Cr	Zinc Zn	Titanium Ti			
Required	0.40 - 0.8	0.7	0.15 - 0.40	0.15	0.8 - 1.2	0.04 - 0.35	0.25	0.15			
Contents	0.52 - 0.64	0.33 - 0.34	0.18	0.08	1.0	0.06	0.12	0.08 - 0.09			
Element									Other Elements		Aluminum Al
Required									Each Total		
Contents									0.05 0.15		remainder
Other Tests											
Method	Macro-structure	Micro-structure	UT	K10	Electro-conductivity, ACS%	SCF	Contents H ₂ of metals	Raw material used for manufacturing supplied products was tested for compliance with International radiation safety regulations during incoming inspection. Russia is country of melt and manufacture. No weld repair.			
Result							0.25				

On behalf:

Date:

QCB Inspector

Inspection Department Engineer



KUMZ J.S.Co.

17.06.2017

Gurava V.N.

Alekhina N.V.

Form № QAD/3-003, Revision 03

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4140 V B 0.500 X 0.500

PO / BATCH NO.: 038050/

DATE: 17/11/02

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: _____

THICKNESS ORDERED: .500
 THICKNESS RECEIVED: .500
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	#7 # 10466150
CORRECT MATERIAL IDENTIFICATION	(Y)	N	M4140 V B 0.500 X .500
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>mf</u>	SIGNED OFF BY: _____		
DATE: <u>17/11/02</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DART

DESIGN 17	DRAWN BY 17	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED 17	APPROVED 17	DRAWING NO. M4140N-B	REV. A SHEET 1 OF 1
DATE 05.01.19		TITLE 4140 BAR	SCALE NTS
A	05.01.19	NEW ISSUE	

RELEASED
05.01.21

PURCHASE MATERIAL: AISI 4140N STEEL BAR
PER MIL-S-5626, AMS 6382, AMS 6349, AMS 6529

PART NUMBER: M4140N-B | T.TTT | x | WW.WWW | WHERE T.TTT = THICKNESS (IN INCHES)
THICK | WIDTH | WW.WWW = WIDTH (IN INCHES)

EG. 0.5" x 4.0" BAR = M4140N-B 0.500 x 04.000

.500 x .500

Copyright © 2005 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M707ST6 R 1.750

PO / BATCH NO.: 038050/

DATE: 17/11/02

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.750
 THICKNESS RECEIVED: 1.750
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	AMS QQ-A-225/9
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	HEAT # 10059056
CORRECT MATERIAL IDENTIFICATION	Y	N	707ST6
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>OML</u>	SIGNED OFF BY: _____		
DATE: <u>17/11/02</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DART

DESIGN <i>BC</i>	DRAWN BY <i>BC</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>B</i>	APPROVED <i>[Signature]</i>	DRAWING NO. M7075T6R	REV. A SHEET 1 OF 1
DATE 07.07.12		TITLE 7075-T6 ROUND BAR	SCALE NTS
A	07.07.12	NEW ISSUE	

RELEASED
07.11.26 *[Signature]*

PURCHASE MATERIAL: 7075-T6 (OR T651/T6510/T6511/T652/T62) ROUND BAR
PER AMS-QQ-A-225/9 (OR AMS 4122/4123/4124/4186/4187) OR
PER AMS-QQ-A-200/11

PART NUMBER: M7075T6RD.DDD WHERE D.DDD = DIAMETER (IN INCHES)

EG. 5/8 ROUND BAR = M7075T6R0.625

1.750

Copyright © 2007 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606ITL6 BD.SDOX#00

PO / BATCH NO.: 38050/

DATE: 17/11/02

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .500

QUANTITY RECEIVED: 6

THICKNESS RECEIVED: .500

QUANTITY INSPECTED: 6

SHEET SIZE ORDERED: _____

QUANTITY REJECTED: _____

SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	HEAT # 13-2217
CORRECT MATERIAL IDENTIFICATION	(Y) N	M606ITL6
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: _____ DATE: _____	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW.WWW/
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-05-03
MFD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2N/D-1)	CP	09.07.13
A	NEW ISSUE	DS	01.09.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	DS		
APPROVED	DS		
DE APPR.	DS		
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M6061T6B
TITLE	6061-T6 BAR
REV. B	SHEET 1 OF 1
SCALE	NTS

THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSE OF WHICH IT WAS ISSUED AND NOT BE LOANED, REPRODUCED, COPIED, OR OTHERWISE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT 4140QT R1
 DATE: 17.11.15

PO / BATCH NO.: 038055 / 500766

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 10
 QUANTITY INSPECTED: 10
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1"
 THICKNESS RECEIVED: 1"
 SHEET SIZE ORDERED: 11/8
 SHEET SIZE RECEIVED: 11/8

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	UF14203057
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	UF MT4140QTR1
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> DATE: <u>17.11.15</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR
SPECIFICATION: ASTM 4140 QT or ASTM 4142 QT
PART NUMBER: MT-4140QT-R [D.DDD]
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = MT-4140QT-R0.625

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.09.12	VM	WM

DART AEROSPACE		Hemel Hempstead, Hertfordshire, UK	
TITLE AISI 4140 Q&T ROUND BAR			
DWG NO. MT-4140QT-R		REV A	
DESIGN BY: VM 09/14/2017	XXX ± .005	FRACTIONS ± 1/16	
DRAWN BY: VM 09/14/2017	.XX ± .01	ANGLES ± 1°	
CHECKED: VM 09/14/2017	SURFACES ± 1/4		
MFG. APPR: DIP 09/14/2017	1. UNLESS OTHERWISE SPECIFIED		
QA APPR: DIP 09/14/2017	2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED		
APPROVED: VM 09/14/2017	3. DIMENSIONAL LIMITS APPLY		
DATE: 9/14/2017	SCALE: NTS	WEIGHT: 0.0 LBS	SHEET 1 OF 1
COPYRIGHT © 2017 BY DART AEROSPACE LTD.			
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS TO BE KEPT IN THE CONTROL OF THE PERSON WHO ISSUES IT. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.			

ECW 17-655

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT- A513-70-500W-065

PO / BATCH NO.: 038050/5007127

DATE: 17.11.15

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .065

QUANTITY RECEIVED: 20

THICKNESS RECEIVED: .065

QUANTITY INSPECTED: 20

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	<u>F626291</u>
CORRECT MATERIAL IDENTIFICATION	(Y)	N	<u>MT A513-70-500W-065</u>
CORRECT M# ON THE MATERIAL	(Y)	N	<u>5007127</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u>	SIGNED OFF BY: _____
DATE: <u>17.11.15</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ECN 17-655

PURCHASE MATERIAL: ASTM A513 SEAMLESS ALLOY STEEL ROUND TUBING (DOM)

ASTM A513

MT-A513-T-[D.DDD]WT.TT

WHERE D.D.DDD IS OUTSIDE DIAMETER IN INCHES

WHERE T.TT IS WALL THICKNESS IN INCHES

EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120

TOLERANCES PER MANUFACTURER SPECIFICATIONS

ART
ASTM A513 TUBING
ASTM A513 TUBING (DOM)

ART
ASTM A513 TUBING
ASTM A513 TUBING (DOM)

DESIGN BY: VM 09/13/2017

CHECKED: VM 09/13/2017

WFO APPR: DP 09/13/2017

QA APPR: PD 09/13/2017

APPROVED: VM 09/13/2017

DATE: 9/13/2017

SCALE: NTS WEIGHT: N/A

SHEET 1 OF

XXX 1 403

1. DIMENSIONS AND FINISHES

2. INTERFERENCE FIT AND TOL PER

3. AFTER PLATING

FRACTIONS & 1/16

SURFACES = 1/16

APPLY

COPIRIGHT © 2017 BY VM

THE DOMESTIC AND FOREIGN TRADE AND EXPORTATION RIGHTS ARE RESERVED FOR VM

FOR THE DESIGN AND CONSTRUCTION OF THE TUBING

FOR THE DESIGN AND CONSTRUCTION OF THE TUBING

FOR THE DESIGN AND CONSTRUCTION OF THE TUBING

ART

ASTM A513 TUBING

ASTM A513 TUBING (DOM)

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140QT-R0625

PO / BATCH NO.: 082050 / 5007115

DATE: 11.15

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 10'
 QUANTITY INSPECTED: 10'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .625"
 THICKNESS RECEIVED: .625"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	DL13107201
CORRECT MATERIAL IDENTIFICATION	(Y) N	MT 4140 QT R0625
CORRECT M# ON THE MATERIAL	(Y) N	5007115
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> DATE: <u>11.15</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR
SPECIFICATION: ASTM 4140 QT or ASTM 4142 QT
PART NUMBER: MT-4140QT-R [D.DDD]
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = MT-4140QT-R0.625

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.09.12	WM	WM

DART AEROSPACE		HWAAGHNY, CHENBO, CHENBO	
TITLE AISI 4140 Q&T ROUND BAR			
DWG NO.		REV	
MT-4140QT-R		A	
DESIGN BY:	WM 8/9/2017	XXX 1/205	FRACTIONS 1/16
DRAWN BY:	WM 8/9/2017	XX 1/21	ANGLES 2.5°
CHECKED:	WM 09/14/2017	1. DIMENSIONS ARE IN INCHES	
QA APPR:	WM 09/14/2017	2. UNLESS OTHERWISE SPECIFIED	
APPROVED:	WM 09/14/2017	3. DIMENSIONS IN PARENTHESIS APPLY	
DATE:	9/14/2017	SCALE:	NTS WEIGHT: 0.0 LBS
SHEET 1 OF 1			
COPYRIGHT © 2017 BY DART AEROSPACE LTD			
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.			

ECW 17-655

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-R1.500

PO / BATCH NO.: 038050/5007114

DATE: 12-11-15

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500
 THICKNESS RECEIVED: 1.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>014580</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>9-89</u>	SIGNED OFF BY: _____		
DATE: <u>12-11-15</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

